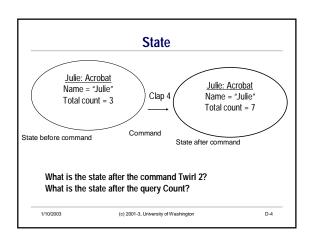
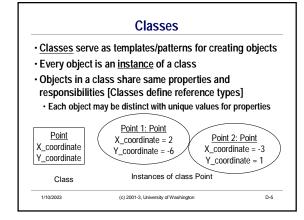
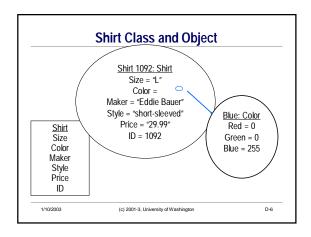


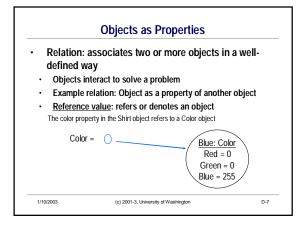
Object Review Objects have properties and responsibilities Can send messages to objects Queries [Find out values associated with properties] Commands [Instruct an object to do something] May cause a change in state Acrobat Example Count is a query Clap and Twirl are commands Increase total count for objects Objects October Review October Review October Send Oct

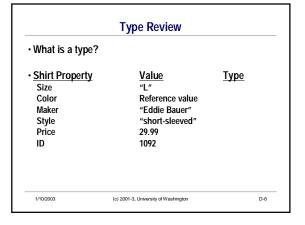


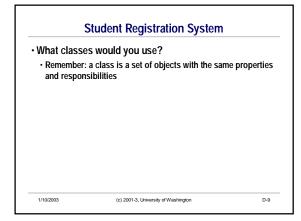


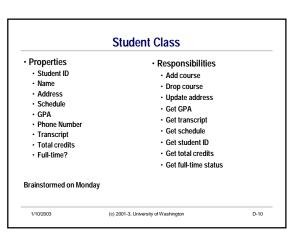


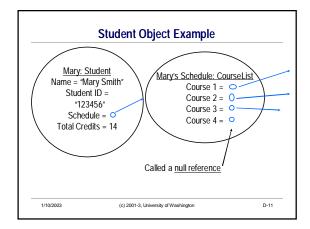
CSE142 Wi03 D-1

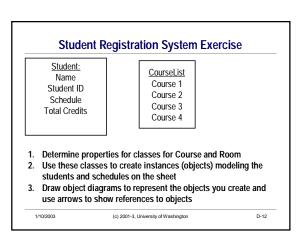






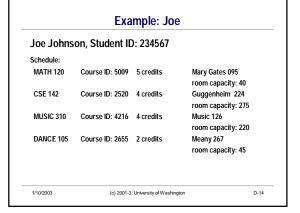






CSE142 Wi03 D-2

Example: Mary Mary Smith, Student ID: 123456 Schedule: CSE 142 Course ID: 2520 4 credits Guggenheim 224 room capacity: 275 MATH 120 Course ID: 5009 5 credits Mary Gates 095 room capacity: 40 Music 126 room capacity: 220



Example Model of Mary and Joe 1/10/2003 (c) 2001-3, University of Washington D-15

Oueries about Mary and Joe • What is the room number of Mary's first course? • What department teaches Joe's second course? • How many seats does the room for Mary's second course have? • What is the course ID for Joe's third course? • How many courses is Joe taking? • To think about: • What would happen if the course ID for CSE 142 changed? • What if the room capacity for MUSIC 126 changed?

Classes and Objects in Java

- Preview of what's to come:
 - · Objects have properties
- In Java, we'll call these <u>instance variables</u>
- · Objects have responsibilities
- · In Java, we'll call these methods
- Next week: we'll start Java
 Now you have a solid foundation of concepts we'll use throughout the quarter

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Summary

- · Objects are instances of classes
- Classes serve as templates for creating objects
- Objects in a class share the same properties and responsibilities
- · Objects can be properties of other objects
 - Defines a relation between objects

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CSE142 Wi03 D-3